



SUMMARY OF ANALYSIS (SAMPLE ID: SA35462)

Testing Location:	Customer ID: 2161	Order ID: OR10498	Sample Type: Primary
Arkansas	River Valley Relief Cultivation	Lot Number:	Matrix: Flower
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13132165635	Mass: 22g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 06/19/2023
License: ADH 113	Date Received: 06/20/2023		
Cultivar (Strain) or Sample Dese	Date Completed: 06/21/2023		

*This page is simply a summary of the analysis performed. For analytical details, please consult the individual Certificate(s) of Analysis for each of the specific test(s) performed. All contaminant action levels are referenced from the State of Arkansas MMJ testing guidelines.

Moisture Content (%)	Water Activity (aw)	PASS/FAIL
13.7	0.465 @ 24.0°C	PASS

Moisture content/water activity action levels are referenced from the State of Arkansas MMJ testing guidelines.

Moisture content levels less than 15% are recommended but the sample does not fail. Water activity levels must be less than 0.65aw.

<u>Cannabinoids (Top 3)</u>	<u>(%)</u>	<u>mg</u> /g
THCA	18.4	184
CBGA	0.932	9.32
Δ9-ТНС	0.796	7.96
TOTAL CBD	-	-
TOTAL THC	16.9	169
TOTAL CANNABINOIDS	20.8	208
<u>Terpenes (Top 5)</u>	<u>(%)</u>	<u>µg/g</u>
<u>Terpenes (Top 5)</u> Terpinolene	<u>(%)</u> 0.134	<mark>µg/g</mark> 1340
Terpinolene	0.134	1340
Terpinolene β-Myrcene	0.134 0.0756	1340 756
Terpinolene β-Myrcene β-Ocimene	0.134 0.0756 0.0530	1340 756 530

<u>Contaminants</u>	PASS/FAIL
Heavy Metals:	PASS
Microbiology:	PASS
Pesticides:	PASS





Scan the QR code to verify results.

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REPORT OF LABORATORY ANALYSIS

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Analyzed on behalf of:



CERTIFICATE OF ANALYSIS (SAMPLE ID: SA35462)

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Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 06/19/2023		
License: ADH 113	License: 00065C	6034H20230504BBF-1	Date Received: 06/20/2023		
Cultivar (Strain) or Sample Description: Ben's BuffaloDate Completed: 06/21/2					

CANNABINOID (POTENCY) PROFILE (SOP: SOP-CANN-001)

Analysis Date/Time: 06/20/2023 1625 Analyst: PW Method: HPLC/DAD Instrument: Agilent 1100

<u>Cannabinoid</u>	<u>Result</u> (<u>%)</u>	<u>Result</u> (mg/g)	<u>LOD</u> (mg/g)	<u>LOQ</u> (mg/g)	<u>Result</u> (mg/ mL)	<u>Per</u> Serving (mg)	<u>Per</u> 5 <u>Unit</u> (<u>mg)</u>
CBC	ND	ND	0.0415	0.0967	-	-	-
CBCA	ND	ND	0.129	0.300	-	-	-
CBD	ND	ND	0.292	0.683	-	-	-
CBDA	ND	ND	0.108	0.251	-	-	-
CBDV	ND	ND	0.0469	0.109	-	-	-
CBDVA	ND	ND	0.125	0.292	-	-	-
CBG	ND	ND	0.190	0.443	-	-	-
CBGA	0.932	9.32	0.269	0.317	-	9.32	9.32
CBL	ND	ND	0.219	0.512	-	-	-
CBN	ND	ND	0.101	0.235	-	-	-
CBNA	ND	ND	0.109	0.253	-	-	-
Δ9-ΤΗC	0.796	7.96	0.121	0.281	-	7.96	7.96
$\Delta 8$ -THC	ND	ND	0.188	0.440	-	-	-
THCA	18.4	184	0.0655	0.153	-	184	184
THCV	ND	ND	0.157	0.366	-	-	-
THCVA	0.680	6.80	0.0502	0.117	-	6.80	6.80
TOTAL	20.8	208			-	208	208
TOTAL CBC	-	-				-	-
TOTAL CBD	-	-			-	-	-
TOTAL CBDV	-	-			-	-	-
TOTAL CBG	0.818	8.18			-	8.18	8.18
TOTAL CBN	-	-			-	-	-
TOTAL THC	16.9	169			-	169	169
TOTAL THCV	0.590	5.90			-	5.90	5.90

Abbreviations: DAD - Diode Array Detector, HPLC - High Pressure Liquid Chromatography, RL - Reporting Limit, RPD - Relative Percent Difference, RSD - Relative Standard Deviation, DET - Detected (less than LOQ), LOD - Limit of Detection, LOQ - Limit of Quantitation, UM - Measurement Uncertainty

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Moisture Content (%): 13.7 **Water Activity (aw):** 0.465 @ 24.0°C



SERVING MASS (g): 1.00 SERVINGS/UNIT: 1

"-" Not detected above LOD.

Deviations from standard operating procedure: None

Recoveries for all analyte standards: 90-110% Replicate Uncertainties: <5% RSD, <20% RPD Sample/Reagent Blanks: <RL for all analytes

Values for plant matter are adjusted for moisture content.

Total CBC = (CBCA x 0.877) + CBC Total CBD = (CBDA x 0.877) + CBD Total CBDV = (CBDVA x 0.867) + CBDV Total CBG = (CBGA x 0.878) + CBG Total CBN = (CBNA x 0.876) + CBN Total THC = (THCA x 0.877) + Δ 9-THC Total THCV = (THCVA x 0.867) + THCV

Percentage results are reported by mass.

mg/g results are reported as mass component per mass material.













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Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:			
License: ADH 113 License: 00065C 6034H20230504BBF-1					
Cultivar (Strain) or Sample Description: Ben's Buffalo					

Sample Type: Primary Matrix: Flower Mass: 22g Date Collected: 06/19/2023 Date Received: 06/20/2023 Date Completed: 06/21/2023

Analysis Date/Time:06/21/2023 0557 Analyst: KF

TERPENOID PROFILE

Method: GC/MS Instrument: Agilent 7890/5975

Deviations from SOP: None

<u>Terpene</u>	<u>Result</u> (µg/g)	<u>Result</u> <u>(%)</u>		
α-Bisabolol	14.0	0.00140		
Camphene	25.8	0.00258		
δ-3-Carene	61.3	0.00613		
β-Caryophyllene	296	0.0296		
Caryophyllene oxide	-	-		
p-Cymene	-	-		
Eucalyptol	19.1	0.00191		
Geraniol	7.40	0.000740		
Guaiol	-	-		
α-Humulene	119	0.0119	1	
Isopulegol	-	-		
d-Limonene	491	0.0491		
Linalool	360	0.0360		
β-Myrcene	756	0.0756		
cis-Nerolidol	-	-		
trans-Nerolidol	21.2	0.00212		
α-Ocimene	30.3	0.00303		
β-Ocimene	530	0.0530		
α-Pinene	213	0.0213	1	
β-Pinene	311	0.0311		
α-Terpinene	106	0.0106	Ī	
γ-Terpinene	90.8	0.00908		
Terpinolene	1340	0.134		
TOTAL	4790	0.479		



Abbreviations: GC - Gas Chromatography, MS - Mass Spectrometry, RL - Reporting Limit

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-" Not detected above RL.

Reporting Limit (µg/g): 140











Deviations from SOP:

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License: ADH 113	License: 00065C	6034H20230504BBF-1	Date Received: 06/20/2023
Cultivar (Strain) or Sample I	Date Completed: 06/21/2023		

Analysis Date/Time: 06/20/2023 1721

PESTICIDES PROFILE (SOP: SOP-PEST-001)

Method: LC/MS/MS **~**1 ·

Analyst: KF					Instrument: Shima	dzu LC-8	3050		None	
<u>Pesticide</u>	<u>Result</u> (µg/g)	<u>LOD</u> (µg/g)	<u>LOQ</u> (µg/g)	<u>Action</u> Level (µg/g)	<u>Pesticide</u>	<u>Result</u> (µg/g)	<u>LOD</u> (µg/g)	<u>LOQ</u> (µg/g)	<u>Action</u> <u>Level</u> (µg/g)	
Abamectin (71751-41-2)	-	0.0453	0.363	0.5	Kresoxim-methyl	_	0.0453	0.363	0.4	
Acephate (30560-19-1)	-	0.0453	0.363	0.4	(143390-89-0)					
Acequinocyl (57960-19-7)	-	0.0453	0.363	2	Malathion (121-75-5)	-	0.0453	0.363	0.2	
Acetamiprid (135410-20-7)	-	0.0453	0.363	0.2	Metalaxyl (57837-19-1) Methiocarb (2032-65-7)	-	0.0453 0.0453	0.363 0.363	0.2 0.2	<u>Color Key</u>
Aldicarb (116-06-3)	-	0.0453	0.363	0.4	Methomyl (16752-77-5)	-	0.0453	0.363	0.4	RESULT < AL
Azoxystrobin (131860-33-8)	-	0.0453	0.363	0.2	Methyl parathion (298-0-0)	-	0.0453	0.363	0.2	RESULT > AL
Bifenazate (149877-41-8)	-	0.0453	0.363	0.2	MGK 264 (113-48-4)	-	0.0453	0.363	0.2	"DET" detected less than LOQ
Bifenthrin (82657-04-3)	-	0.0453	0.363	0.2	Myclobutanil		0.0453	0.363	0.2	"-" not detected above
Boscalid (188425-85-6)	-	0.0453	0.363	0.4	(88671-89-0)	-	0.0433	0.303	0.2	LOD
Carbaryl (63-25-2)	-	0.0453	0.363	0.2	Naled (300-76-5)	-	0.0453	0.363	0.5	
Carbofuran (1563-66-2)	-	0.0453	0.363	0.2	Oxamyl (23135-22-0)	-	0.0453	0.363	1	Permethrins measured as the cumulative residue of the <i>cis</i> - and
Chlorantraniliprole (800008-45-7)	-	0.0453	0.363	0.2	Paclobutrazol (76738-62-0)	-	0.0453	0.363	0.4	trans- permethrin isomers.
Chlorfenapyr		0.0452	0.262	1	Permethrins (52645-53-1)	-	0.0453	0.363	0.2	Pyrethrins measured as the cumulative residue of the
(122453-73-0)	-	0.0453	0.363	1	Phosmet (732-11-6)	-	0.0453	0.363	0.2	cumulative residue of the pyrethrin I, cinerin I, and jasmolin
Chlorpyrifos (2921-88-2)	-	0.0453	0.363	0.2	Piperonyl butoxide	_	0.0453	0.363	2	I isomers.
Clofentezine (74115-24-5)	-	0.0453	0.363	0.2	(51-03-6)					Action levels are referenced from
Cyfluthrin (68359-37-5)	-	0.0453	0.363	1	Prallethrins (2331-36-9)	-	0.0453	0.363	0.2	the
Cypermethrin (52315-07-8)	-	0.0453	0.363	1	Propiconazole (60207-90-1))	-	0.0453	0.363	0.4	State of Arkansas MMJ testing guidelines.
Daminozide (1596-84-5)	-	0.0453	0.363	1	Propoxur (114-26-1)	-	0.0453	0.363	0.2	A value of "-" for the action level
DDVP (62-73-7)	-	0.0453	0.363	0.1	Pyrethrins (8003-34-7)	-	0.0453	0.363	1	means that analyte is not
Diazinon (333-41-5)	-	0.0453	0.363	0.2	Pyridaben (96489-71-3)	-	0.0453	0.363	0.2	currently regulated by the
Dimethoate (60-51-5)	-	0.0453	0.363	0.2	Spinosad (168316-95-8)	-	0.0453	0.363	0.2	regulations referenced above.
Ethoprophos (13194-48-4)	-	0.0453	0.363	0.2	Spiromesifen	-	0.0453	0.363	0.2	Disclaimer: This information is
Etofenprox (80844-07-1)	-	0.0453	0.363	0.4	(283594-90-1)					provided as a service and makes no claims of efficacy and/or safety
Etoxazole (153233-91-1)	-	0.0453	0.363	0.2	Spirotetramat (203313-25-1)	-	0.0453	0.363	0.2	of this product. Results are
Fenoxycarb (72490-01-8)	-	0.0453	0.363	0.2	Spiroxamine		0.0450	0.000		applicable only for the sample(s)
(E)-Fenpyroximate (134098-61-6)	-	0.0453	0.363	0.4	(118134-30-8) Tebuconazole	-	0.0453	0.363	0.4	analyzed and for the specific analysis conducted. This report is for informational purposes only
Fipronil (120068-37-3)	-	0.0453	0.363	0.4	(80443-41-0)	-	0.0453	0.363	0.4	and should not be used to
Flonicamid (158062-67-0)	-	0.0453	0.363	1	Thiacloprid	_	0.0453	0.363	0.2	diagnose, treat, or prevent any medical-related symptoms. The
Fludioxinil (131341-86-1)	-	0.0453	0.363	0.4	(111988-49-9)		5.0.05	0.000		statements and results herein have
Hexythiazox (78587-05-0)	-	0.0453	0.363	1	Thiamethoxam (153719-23-4)	-	0.0453	0.363	0.2	not been approved and/or
Imazalil (35554-44-0)	-	0.0453	0.363	0.2	(155719-25-4) Trifloxystrobin					endorsed by the FDA.
Imidacloprid (138261-41-3)	-	0.0453	0.363	0.4	(141517-21-7)	-	0.0453	0.363	0.2	

Abbreviations: LC - Liquid Chromatography, MS - Mass Spectrometry, RL - Reporting Limit, AL - Action Level, CAS - Chemical Abstract Services, LOD - Limit of Detection, LOQ - Limit of Quantification

CyfluthrinBaythroidMyclobutanilSysthanePropiconazoleDDVPDichlorvosNaledDibromPropoxurEthoprophosProphosPhosmetImidan	Pesticide	<u>Synonym(s)</u>	Pesticide	Synonym(s)	Pesticide
	Cyfluthrin	Baythroid	Myclobutanil	Systhane	Propiconazole
Ethoprophos Prophos Phosmet Imidan	DDVP	Dichlorvos	Naled	Dibrom	Propoxur
	Ethoprophos	Prophos	Phosmet	Imidan	



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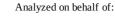


Synonym(s) Tilt Baygon

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Cultivar (Strain) or Sample D	Date Completed: 06/21/2023		

HEAVY METAL PROFILE (SOP: SOP-ICP-200.6)

Analysis Date/Time: 06/20/2023 1813 (ICP/OES) Analysis Date/Time: - (DMA) Analyst: KF			Method: ICP/MS Instrument: Agilent 7500ce		Deviations from SOP: None
<u>Heavy Metal</u>	<u>Result</u> (µg/kg)	<u>LOD</u> (µg/kg)	<u>LOQ</u> (µg/kg)	<u>Action Level</u> (µg/kg)	
Arsenic (As)	-	55.4	87.8	200	
Cadmium (Cd)	-	55.4	87.8	200	
Lead (Pb)	-	55.4	87.8	500	
Mercury (Hg)		55.4	87.8	100	

Abbreviations: ICP - Inductively-Coupled Plasma, OES - Optical Emission Spectroscopy, DMA - Direct Mercury Analyzer, RL - Reporting Limit, AL - Action Level, LOD - Limit of Detection, LOQ - Limit of Quantitation

<u>Color Key</u>



"DET" detected less than LOQ

"-" not detected above LOD

Action levels for heavy metals are referenced from the State of Arkansas MMJ testing guidelines.

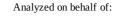
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Cultivar (Strain) or Sample D	Date Completed: 06/21/2023		

MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 06/21/20 Analyst: PW		d: Hardy Diagnostics CompactD ment: Thermo Incubator	Dry Deviations from SOP: None
Bacteria/Microbe	<u>Result</u> (CFU/g)	<u>Action Level</u> (CFU/g)	
Aerobic Plate Count	NT	-	
Coliforms, Total	Absent	1	
Escherichia Coli (E. Coli)	Absent	100	The stand
Mold/Yeast	NT	-	
Pseudomonas aeruginosa	NT	-	
Salmonella spp.	NT	-	
Staphylococcus aureus	NT	-	

Abbreviations: EC - Escherichia Coli, CFU - Colony-Forming Unit, RL - Reporting Limit, AL - Action Level, TNTC - Too Numerous To Count, NT - Not Tested Absent - Not Detected Above RL, Present - Detected Above RL





1

Action levels for microbiology are referenced from the State of Arkansas MMJ testing guidelines. A value of "-" for the action level means that analyte is not currently regulated by the regulations referenced above.

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